

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,689	12/14/2001	GopalaKrishna Reddy Kakivaya	MSFT-0737/183219.1	5665
41505 7	590 07/26/2005		EXAMINER	
WOODCOCK WASHBURN LLP			LE, DEBBIE M	
	Y PLACE - 46TH FLOOR IIA, PA 19103		ART UNIT	PAPER NUMBER
	•		2167	
			DATE MAILED: 07/26/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

)	A	Applicantial
<i>I</i>	Application No.	Applicant(s)
Office Action Commons	10/017,689	KAKIVAYA ET AL
Office Action Summary	Examiner	Art Unit
The MAIL INC DATE of this communication	DEBBIE M. LE	2167
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ntii trie correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicat: - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of thi period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on	14 December 2001.	
	This action is non-final.	
3) Since this application is in condition for al	llowance except for formal mat	tters, prosecution as to the merits is
closed in accordance with the practice un	nder <i>Ex parte Quayl</i> e, 1935 C.I	D. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applic	ation	•
4a) Of the above claim(s) is/are with		
5) Claim(s) is/are allowed.	0	
6)⊠ Claim(s) <u>1-20</u> is/are rejected.		•
7) Claim(s) is/are objected to.	•	
8) Claim(s) are subject to restriction a	and/or election requirement.	
Application Papers		
9) The specification is objected to by the Exa	aminer.	•
10)⊠ The drawing(s) filed on <u>14 December 200</u>		☑ objected to by the Examiner.
Applicant may not request that any objection t		•
Replacement drawing sheet(s) including the c	orrection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for fo a) ☐ All b) ☐ Some * c) ☐ None of:	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
1. Certified copies of the priority docu	ments have been received.	
2. Certified copies of the priority docu	ments have been received in A	Application No
Copies of the certified copies of the	•	received in this National Stage
application from the International B	, , , , , , , , , , , , , , , , , , , ,	
* See the attached detailed Office action for	a list of the certified copies not	t received.
Attachment(s)		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO-94 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>12/14/01</u>. 		(s)/Mail Date Informal Patent Application (PTO-152)
S. Patent and Trademark Office TOL-326 (Rev. 1-04)	ice Action Summary	Part of Paper No./Mail Date 20050714

Art Unit: 2167

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/14/01 has been considered by the examiner. See attached PTO-1449.

Drawings

The drawing is objected to because they fail to show necessary textual labels of features or symbols in Fig. 1 as described in the specification. For example, placing a label, "distributing computing objects", with elements 10a-10n of Fig. 1, would give the viewer necessary detail to fully understand this element at a glance. A *descriptive* textual label for *each numbered element* in these figures would be needed to fully and better understand these figures without substantial analysis of the detailed specification. Any structural detail that is of sufficient importance to be described should be shown in the drawing. Optionally, applicant may wish to include a table next to the present figure to fulfill this requirement. See 37 CFR 1.83. 37 CFR 1.84(n)(o) is recited below:

- "(n) Symbols. Graphical drawing symbols may be used for conventional elements when appropriate. The elements for which such symbols and labeled representations are used must be adequately identified in the specification. Known devices should be illustrated by symbols which have a universally recognized conventional meaning and are generally accepted in the art. Other symbols which are not universally recognized may be used, subject to approval by the Office, if they are not likely to be confused with existing conventional symbols, and if they are readily identifiable.
- (o) Legends. Suitable descriptive legends may be used, or may be required by the Examiner, where necessary for understanding of the drawing, subject to approval by the Office. They should contain as few words as possible."

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-5 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The language of the claim raise a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result in a practical application producing a concrete, useful, and tangible result to form the basic of statutory subject matter under 35 U.S.C. 101.

To expedite a complete examination of the instant application the claims rejected under 35 U.S.C 101 (nonstatutory) above are further rejected as set forth below in anticipation of applicant amending these claims to place them within the four categories.

Note: The limitations of claims 5 and 12 are similar, and both depend to claim 1 (seams like duplicate claims). Examiner believes that applicants make a typographical error in claim 12. It seams that claim 12 depends on claim 8 instead of claim 1.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2167

Claims 1-15, 17-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Asami et al (US patent Application No. 2002/0123991 A1).

As per claim 1, Asami discloses a method for querying a data structure in a distributed computing environment, comprising:

preparing a query specifying a data type of a variable and a value contained within said data structure (as generating a query statement by defined data types along with data structures) (see par. 0022, 0050, 0058);

sending the query to an object (as a query device 150 issues query statements to a DBMS 100) (see par. 0008), wherein said object determines whether maintains a data structure having a variable of the data type specified and whether the variable contains the specified value (as a database management system interpret and execute a query statement expresses, or the data type being queries is evaluated to see whether it is a newly added data type or not) (see par. 0026).

As per claim 2, Asami teaches wherein the query is specified as a text string (see par. 0048).

As per claim 3, Asami teaches wherein the data structure is stored as one of XML, database tables, and a programming language data structure (see par. 0050-0052).

As per claim 4, Asami teaches receiving a data value from at least one digital device indicative of the storage of the value in said digital device (see par. 0054-0055).

Art Unit: 2167

As per claim 5, Asami teaches the digital device comprises one of a personal computer, personal digital assistant, video tape recorder, a display device, and an MP3 player (see par. 0063-0066).

As per claim 6, Asami teaches wherein the query is sent in the form of a message over a data network (see par. 0047, 0051).

Claim 7 is rejected by the same rationale as state in claim 1 arguments.

As per claim 8, Asami teaches a system for determining the status of a device, comprising:

a query generation mechanism for generating a type query specifying a data type and a value (as query statement generating module 204 uses the query information entered via the query input module 202 to generate a query statement to be issued to the database management system 200) (see par. 0022, 0058);

a query transmission mechanism for transmitting the type query and the value over a communication network to at least one digital device (as a query device 150 issues query statements to a DBMS 100 via a network) (see par. 0008, 0047), whereby the digital device compares the data type to a data type of a data structure that it maintains and compares the value to a value stored in the data structure (as a database management system interpret and execute a query statement expresses, or the data type being queries is evaluated to see whether it is a newly added data type or not) (see par. 0026).

Claims 9-12 have similar limitations as claims 2-5; therefore, they are rejected under the same subject matter.

Art Unit: 2167

As per claim 13, Asami discloses a method for use in a digital device in a distributed system, comprising:

coupling the digital device to a communication network (as DBMS 200 connects to a query device via a network) (see Fig. 1, Fig. 3, # 405, par. 0047);

storing a value in a data structure in said digital device, said data structure defined by a programming language data type definition (as data definition 210 represents user-defined type definition and implementations (programs), an example of a user-defined type is a structured document type such as SGML) (see par. 0051);

receiving a query specifying a query data type and a query value (as a query device 150 issues query statements to a DBMS 100 via a network) (see par. 0008, 0047);

comparing the query data type to the data structure data type and the query value to the value stored in the data structure (as the data type being queried is evaluated by searching the query component information for a particular data type belonging to the data type being queried, and when the data type is found) (see par. 0026-0027);

indicating whether the query data type matches the data structure data type and whether the query value matched the value stored in the data structure (as the data type being queries is evaluated to see whether it is a newly added data type or not, for instant, when the query component querying of data belongs to the data type being queries is found) (see par. 0025, 0027).

As per claim 14, Asami teaches wherein the programming language is one of a procedural language and an object oriented language (see par. 0012-0013).

As per claim 15, Asami teaches wherein the programming language is one of an interpreted language and a compiled language (see par. 0007).

Claims 17-19 have similar limitations as claims 2, 5-6; therefore, they are rejected under the same subject matter.

Claim 20 is rejected by the same rationale as state in claim 13 arguments.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2167

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Asami et al (US patent Application No. 2002/0123991 A1) as applied to claims 13-15 above, and further in view of Gombocz et al (US Patent Application No. 2002/0156792 A1).

As per claim 16, Asami does not explicitly teach wherein the object oriented language is one of JAVA, C#, CLR, and C++. However, Gombocz teaches wherein the object oriented language is one of JAVA, C#, CLR, and C++ (see par. 0059). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of the cited references to implement the step of the program language is a object oriented and the object oriented is one of JAVA, C#, CLR, and C++ as disclosed by Gombocz because the object-oriented language makes it easier to provide a second language distinct from the first language, such as C++, Jave, XML and other markup language; therefore, it is readily apparent to anyone skill in the art that other enabling software codes for enabling techniques also be used, as suggested by Gombocz (see par. 0059).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEBBIE M. LE whose telephone number is (571) 272-4111. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN BREENE can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2167

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DEBBIE M LE Examiner Art Unit 2167

Debbie Le

July 21, 2005.